

TABLE I

Examples	1	2	3	4	5	6	7	8	9
Membrane Composition (parts by weight)									
UHMWPE (M wt.= 1x10 ⁶)	17	18	19	20	0	0	0	0	0
UHMWPE (M wt.= 3x10 ⁶)	0	0	0	0	8	8	4	4	1
LMWPE (M wt.=1000)	0	0	0	0	10	9	5	4	0
TiO ₂	3	2	1	0	2	2	6	6	6
Thickness (μm)	25	25	25	25	25	25	25	25	25
Porosity (%)	74	68	55	51	52	52	51	59	64
Air permeability (Gurley- sec.)	2	2	2	2	27	16	15	13	8
Shutdown Temp. T _{SD} (°C)	138	138	138	138	100	105	138	145	>200
Melt Integrity (°C)	>200	>200	>200	>165	>200	>200	>200	>200	>200
Average pore diameter (μm)	<1	<1	<1	<1	<1	<1	<1	<1	<1
Puncture, 3mm pin (grams/25μm)	726	771	863	1000	636	817	812	726	545